

FIGURE 1

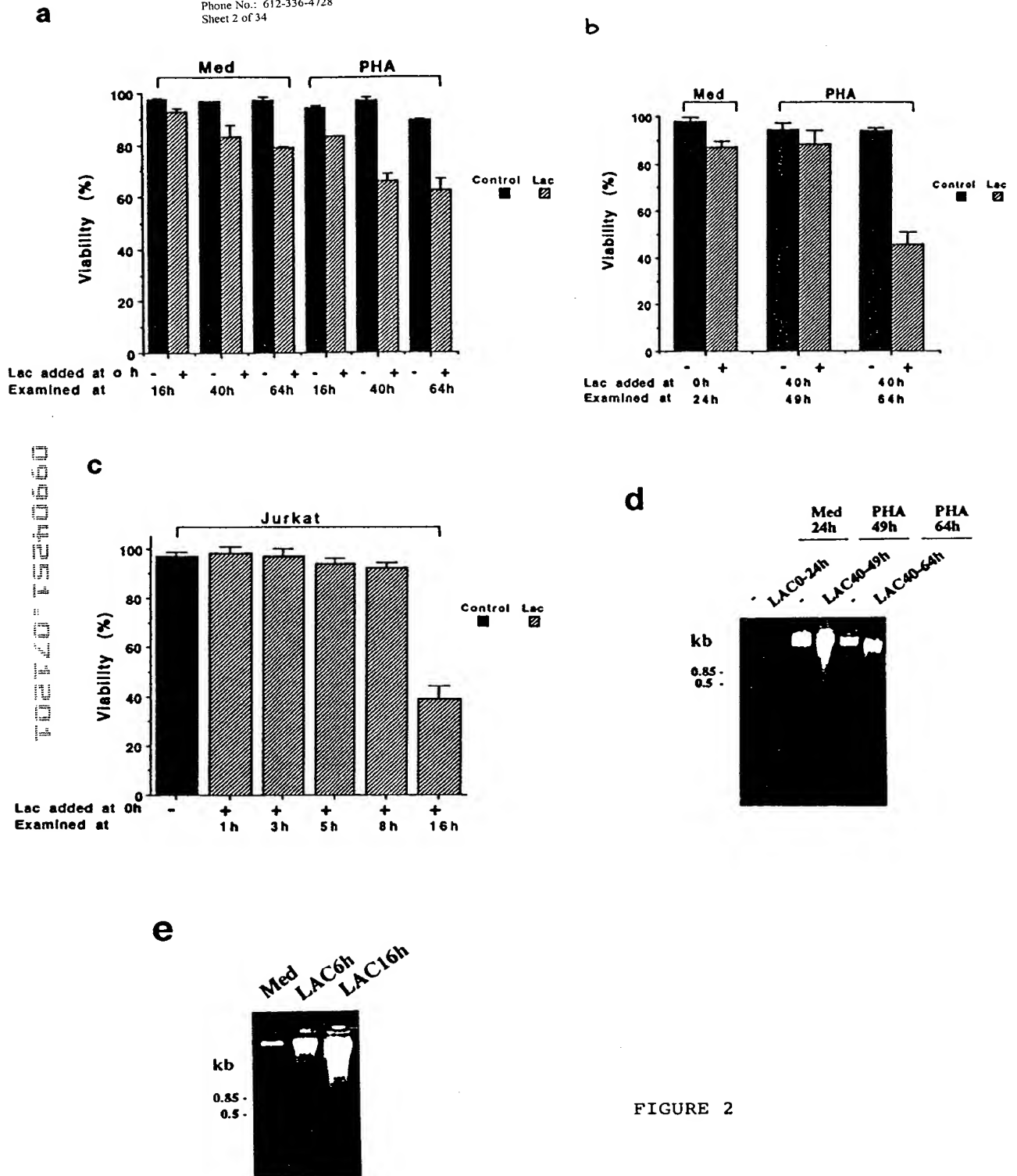


FIGURE 2

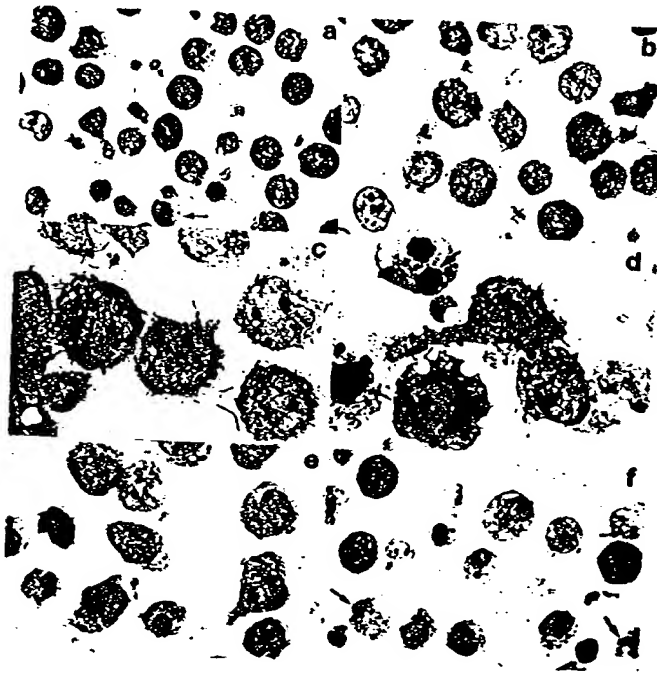


FIGURE 3

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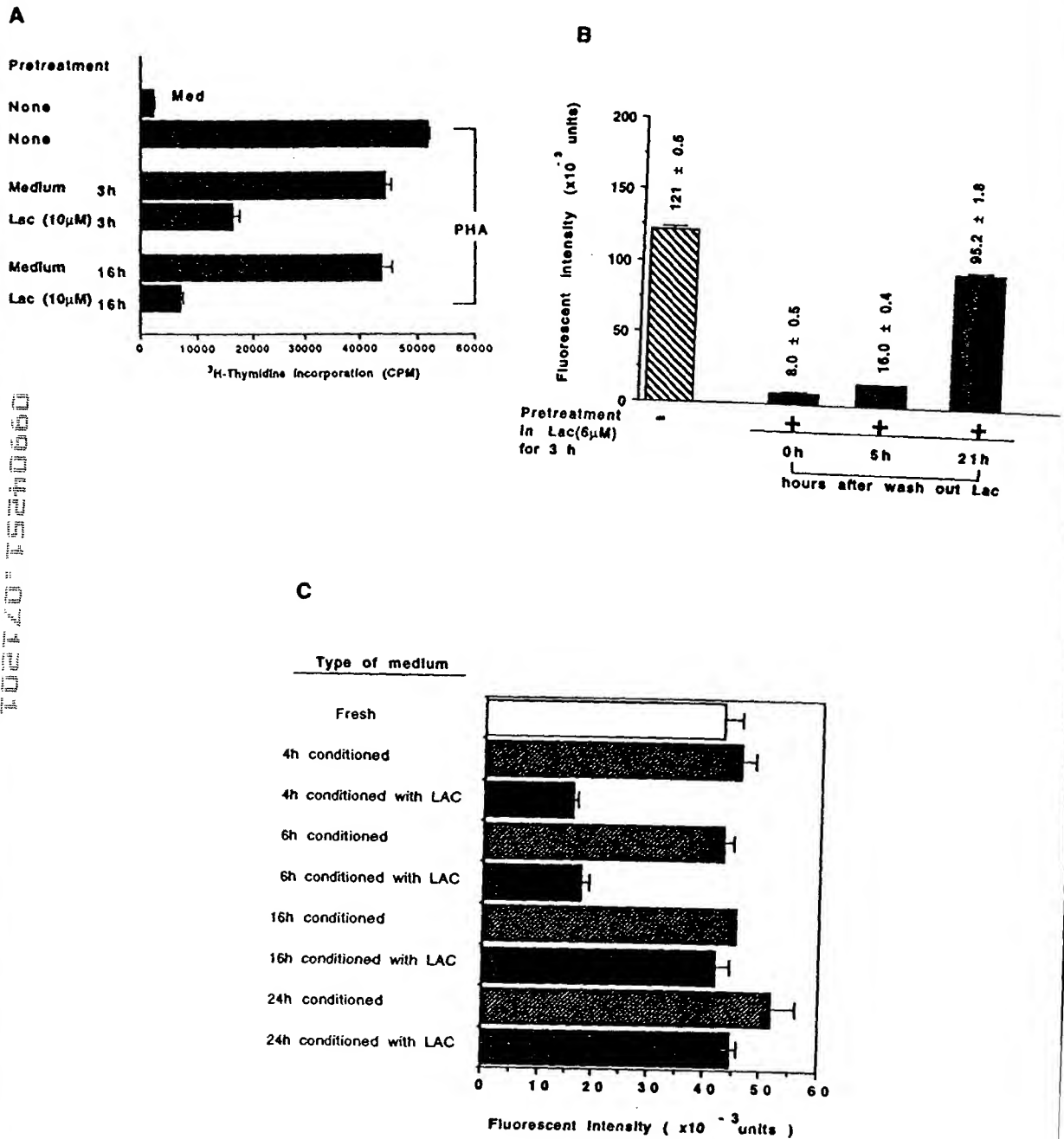
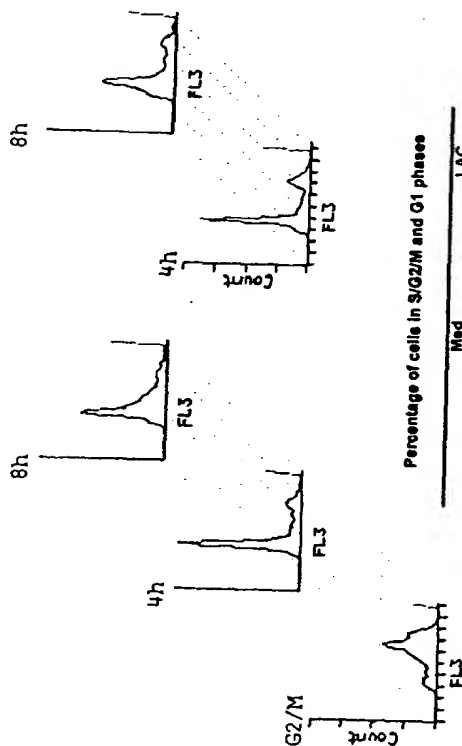


FIGURE 4

a

Medium LAC



Percentage of cells in S/G2/M and G1 phases

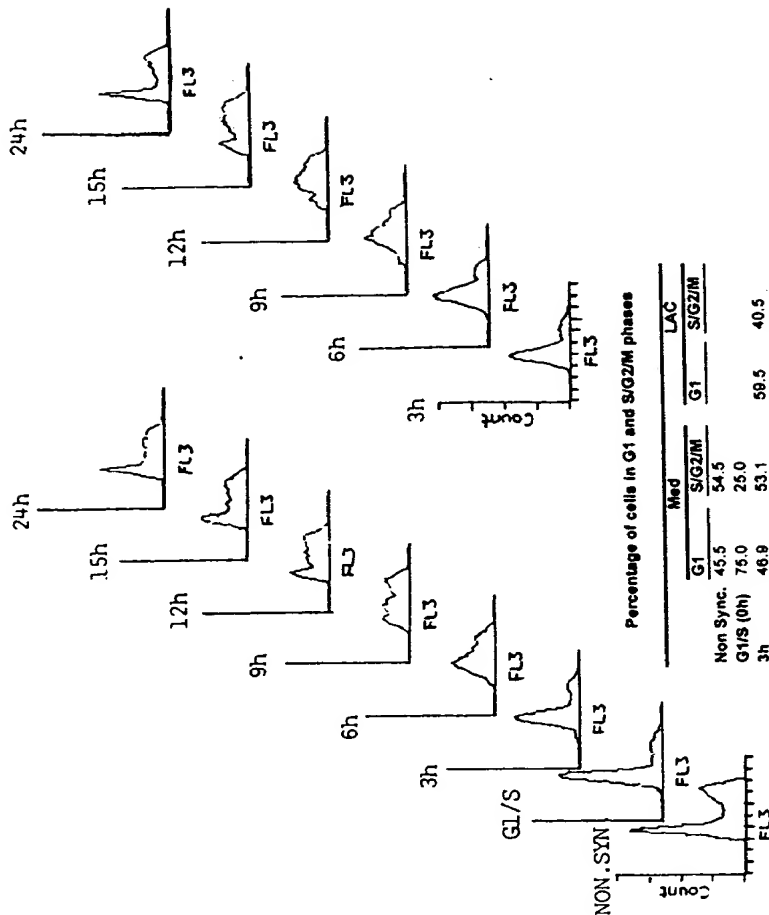
	Med		LAC	
	S/G2/M	G1	S/G2/M	G1
G2/M (0h)	82.6	17.4		
4h	33.0	67.0	40.2	59.8
8h	41.9	58.1	38.5	61.5

FIGURE 6A

**b**

**Medium**

**LAC**



C

FOI b 7 - D

PHA

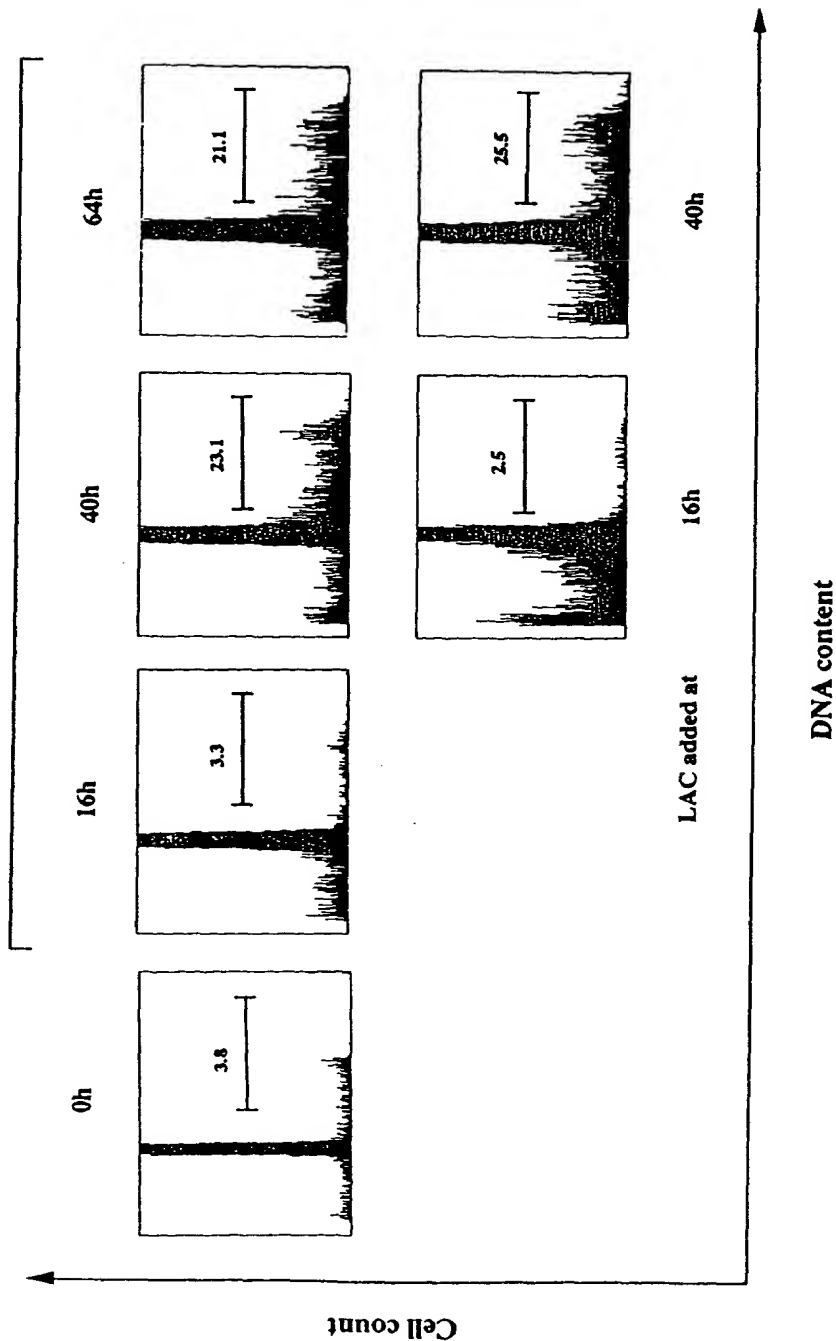
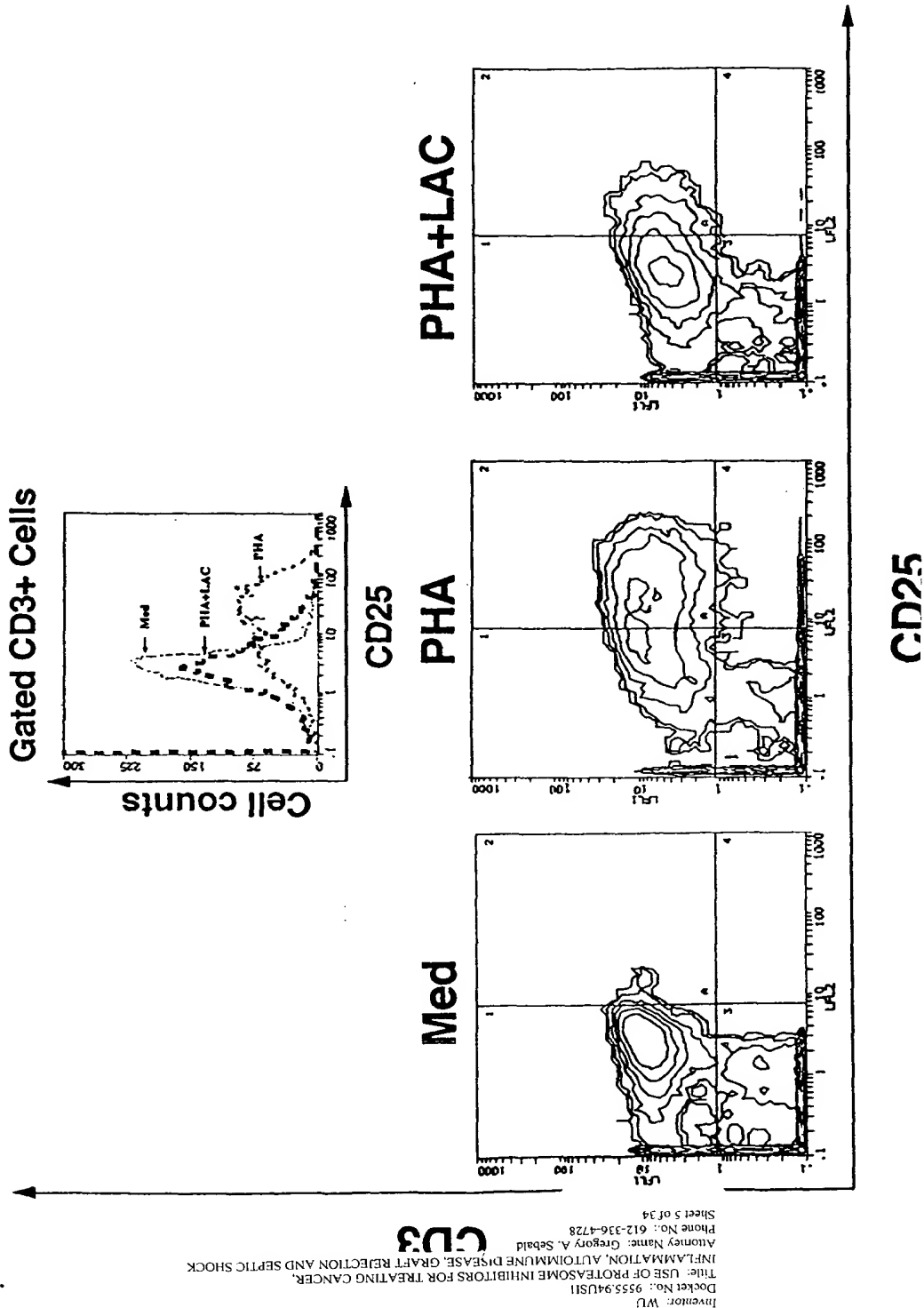


FIGURE 6C





d

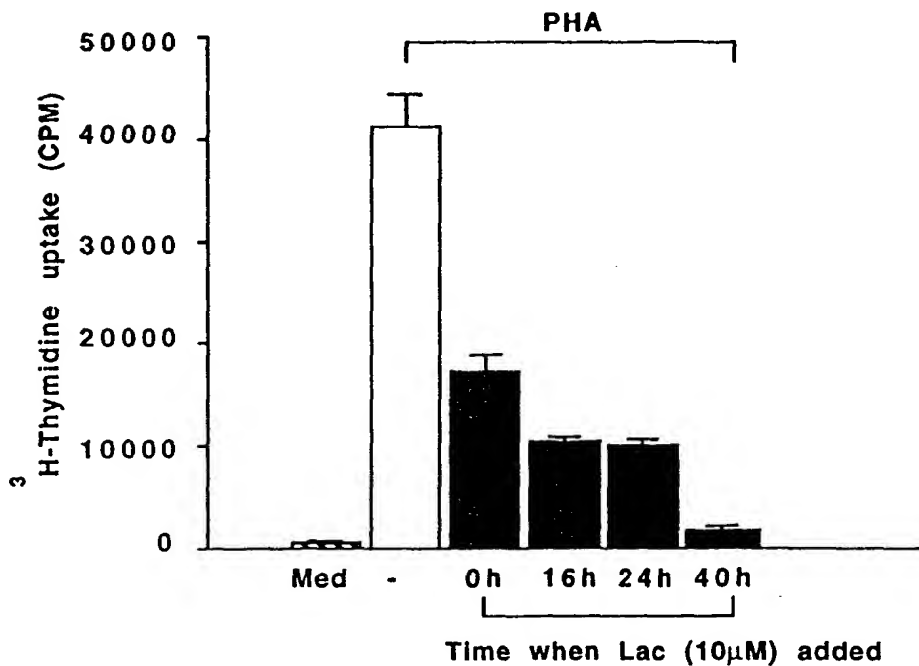


FIGURE 6D

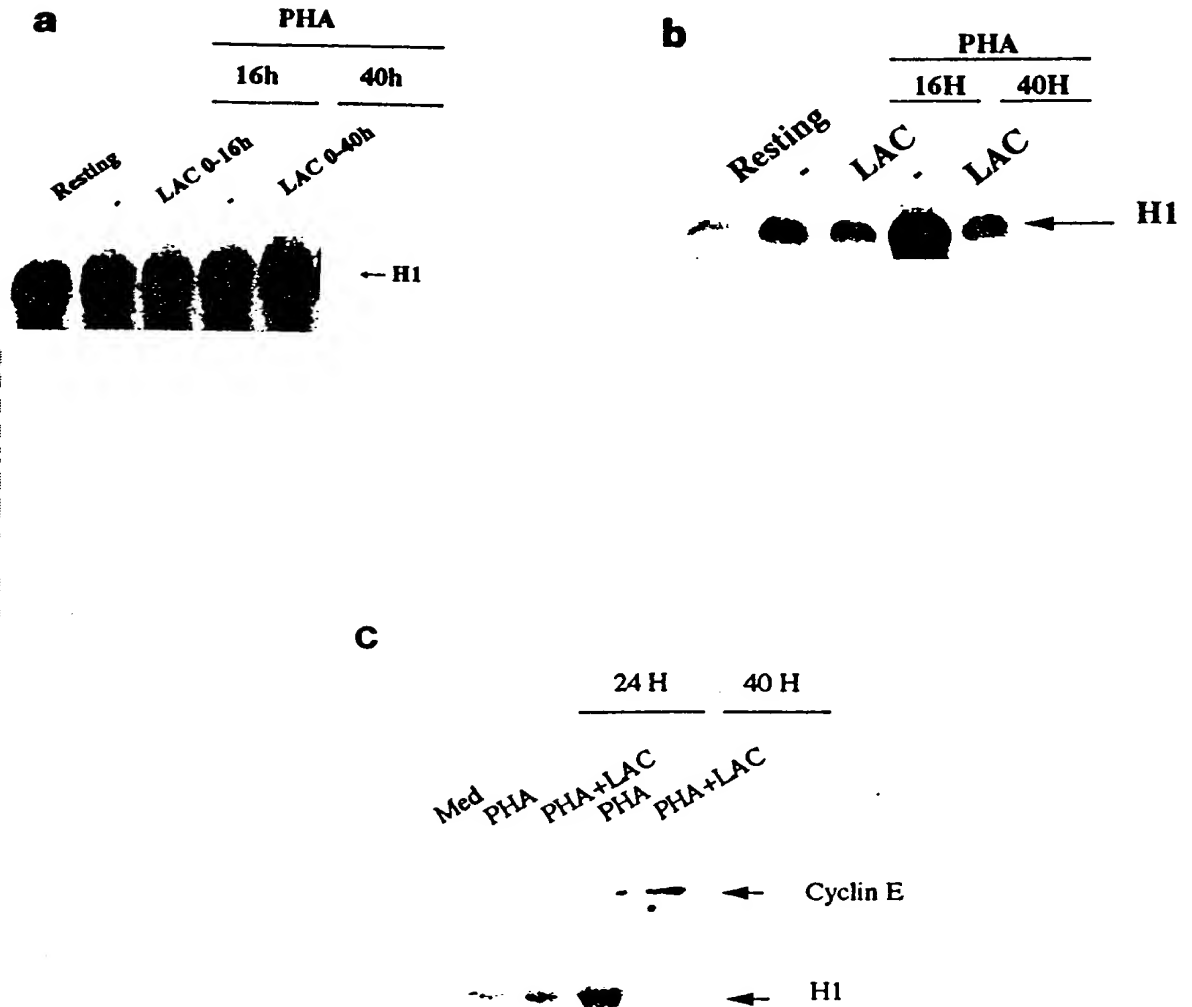
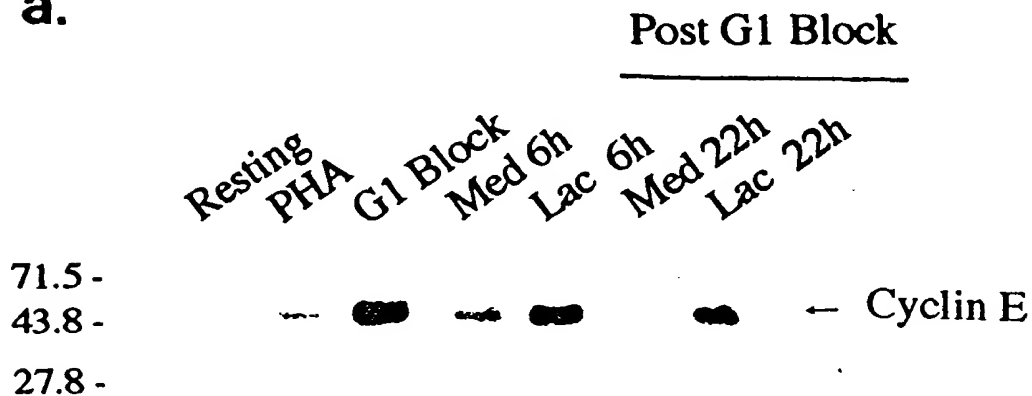


FIGURE 7

**a.**



**b.**

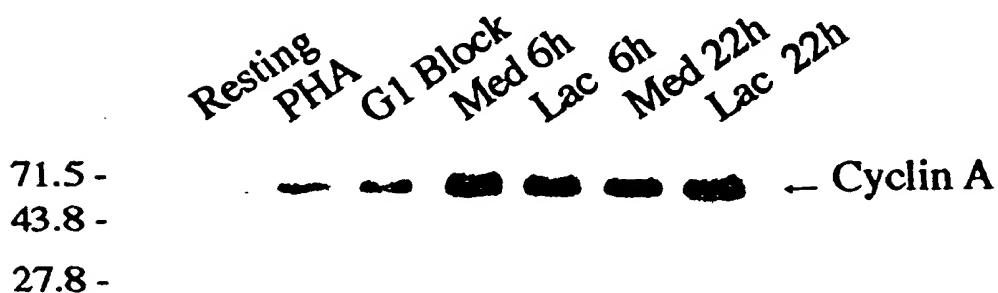
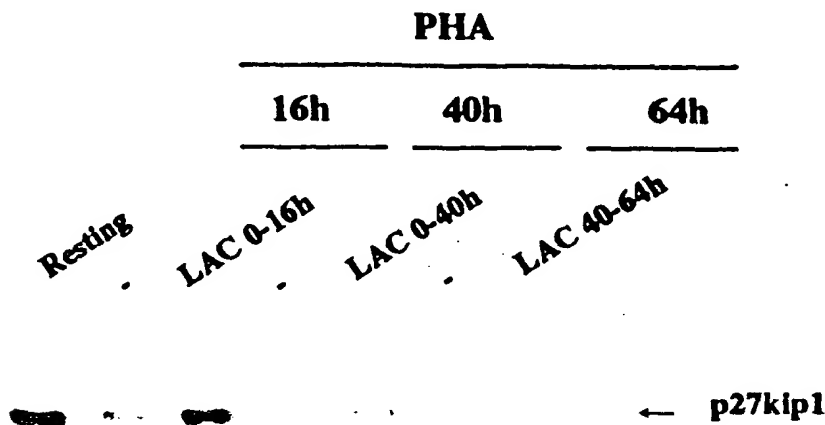


FIGURE 8

a.



b.

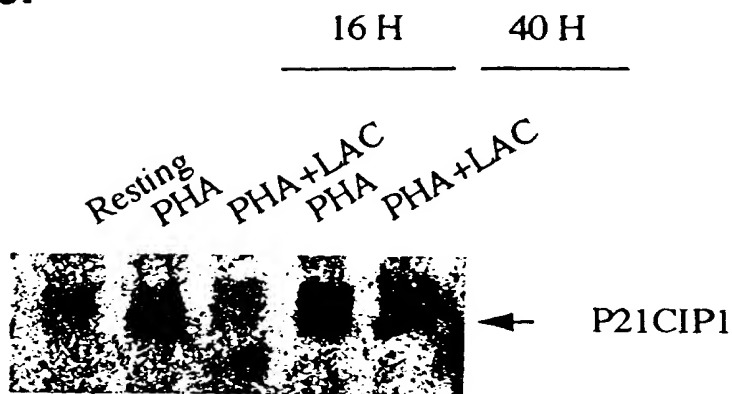
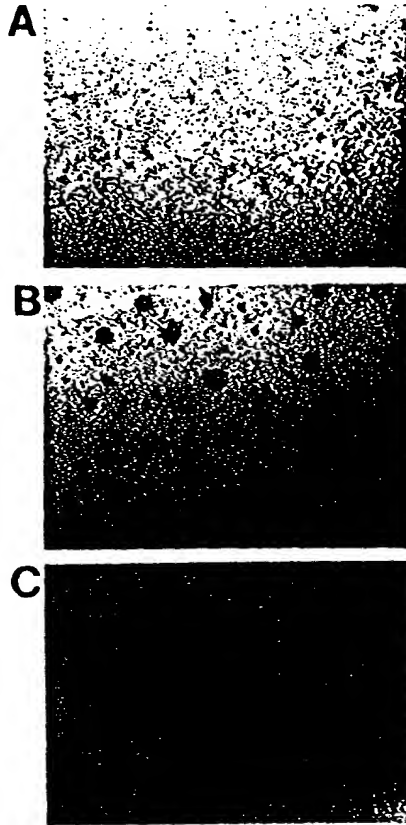


FIGURE 9

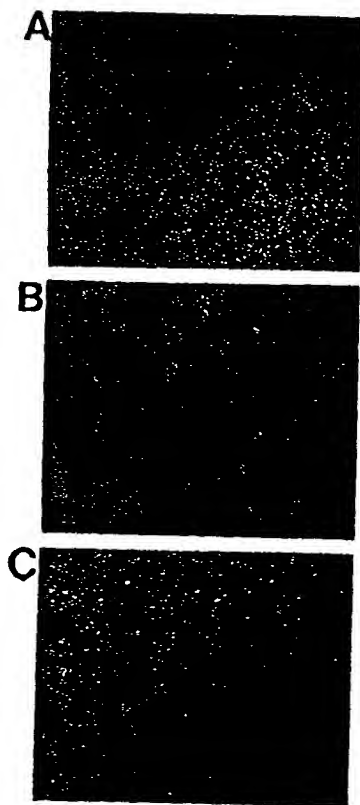
**Lactacystin inhibits aggregation of  
PHA-stimulated human PBMC**



**FIGURE 10**

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**Lactacystin inhibits aggregation of  
mitogen-stimulated mouse lymph node cells**



**FIGURE 11**

000054 07201  
FOI b7E b7C b6D

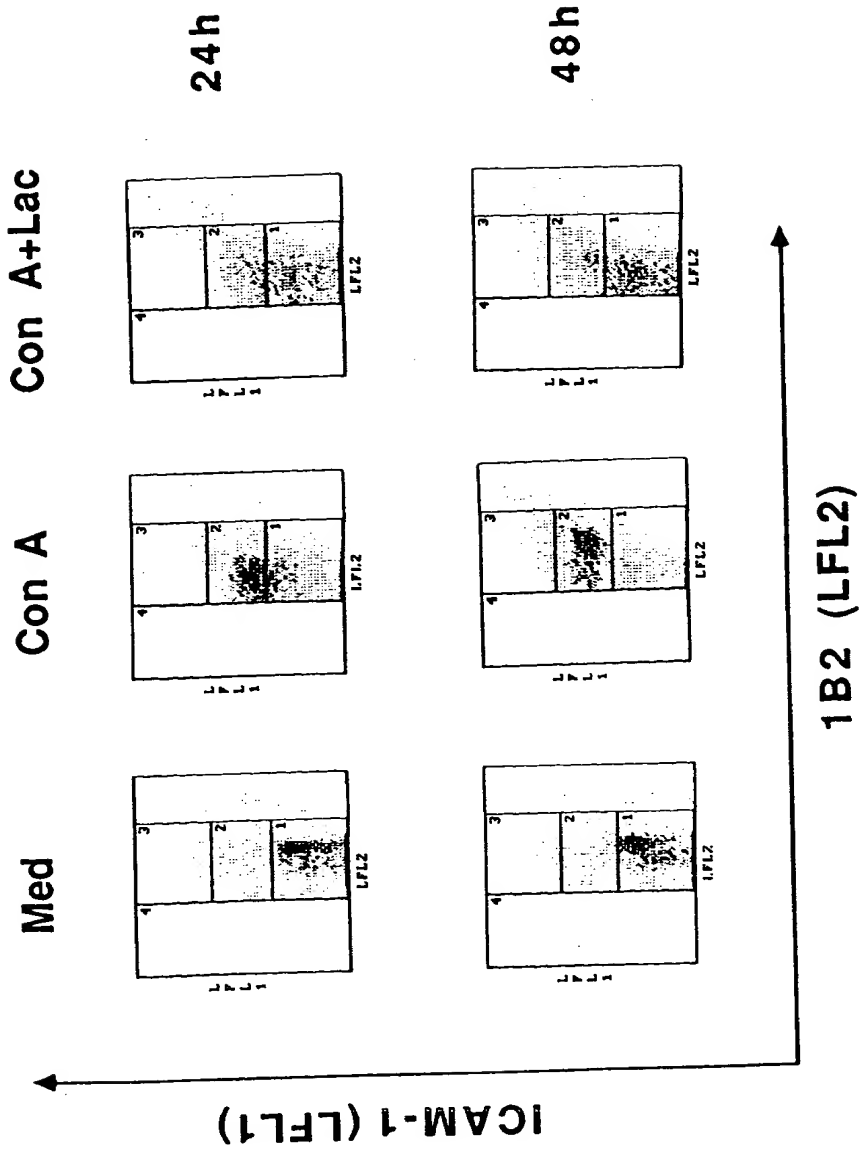


FIGURE 12

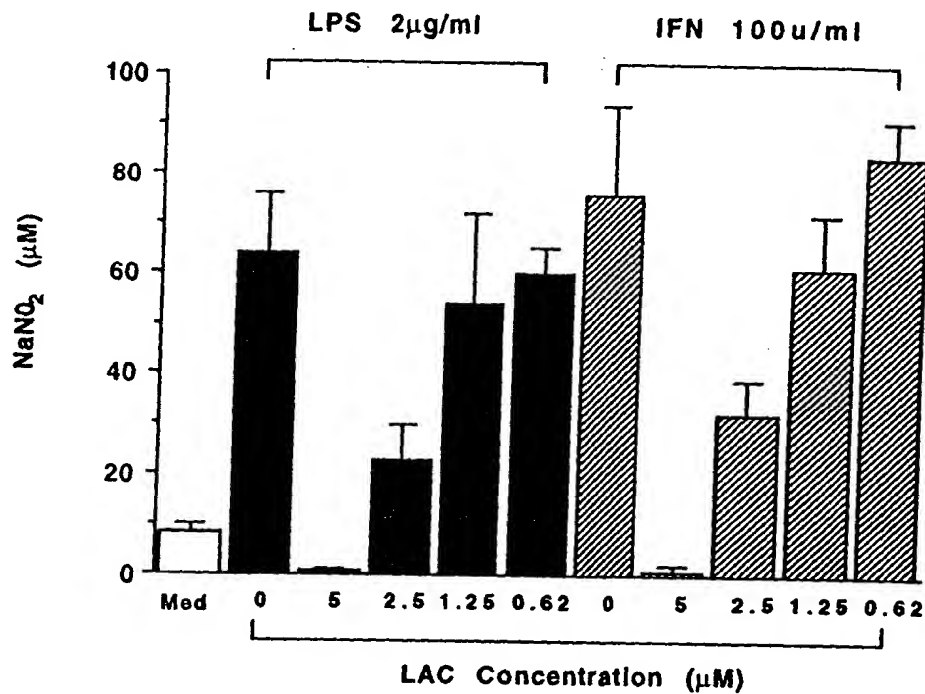


FIGURE 13



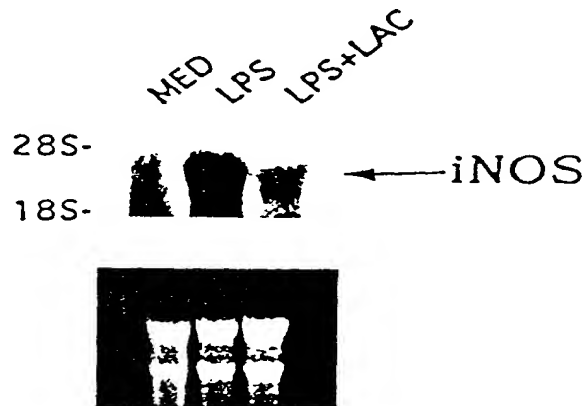


FIGURE 14

FIGURE 15

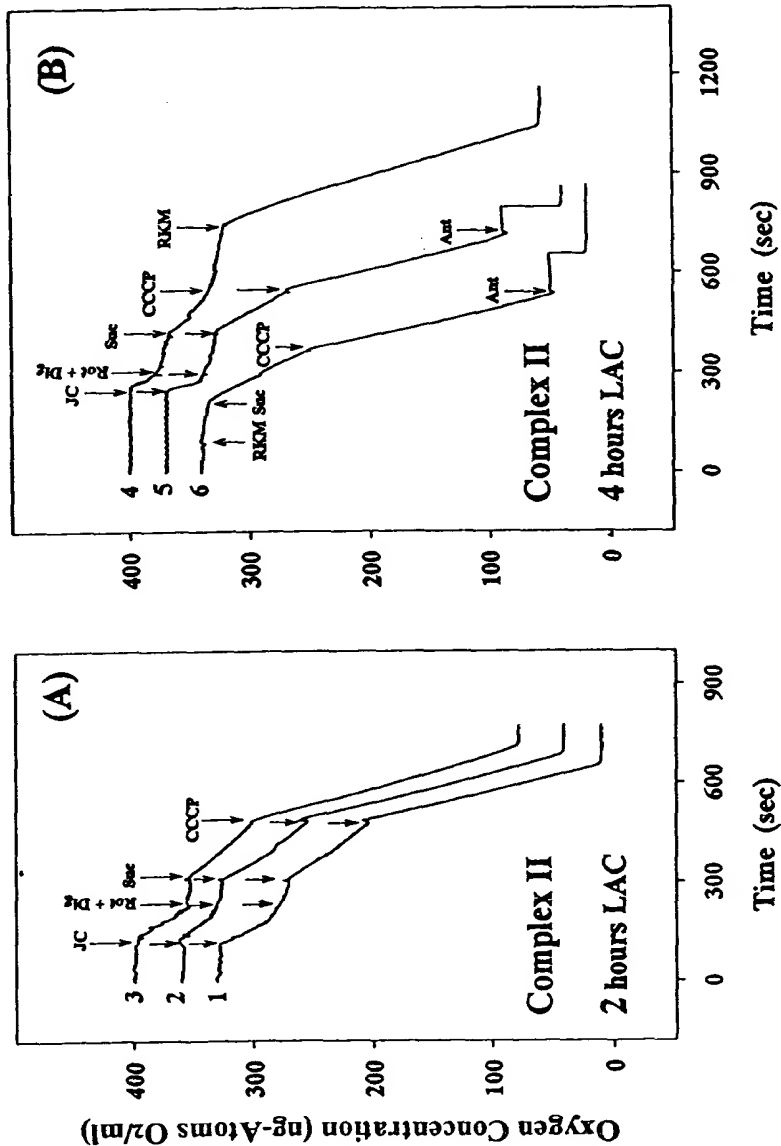


FIGURE 16

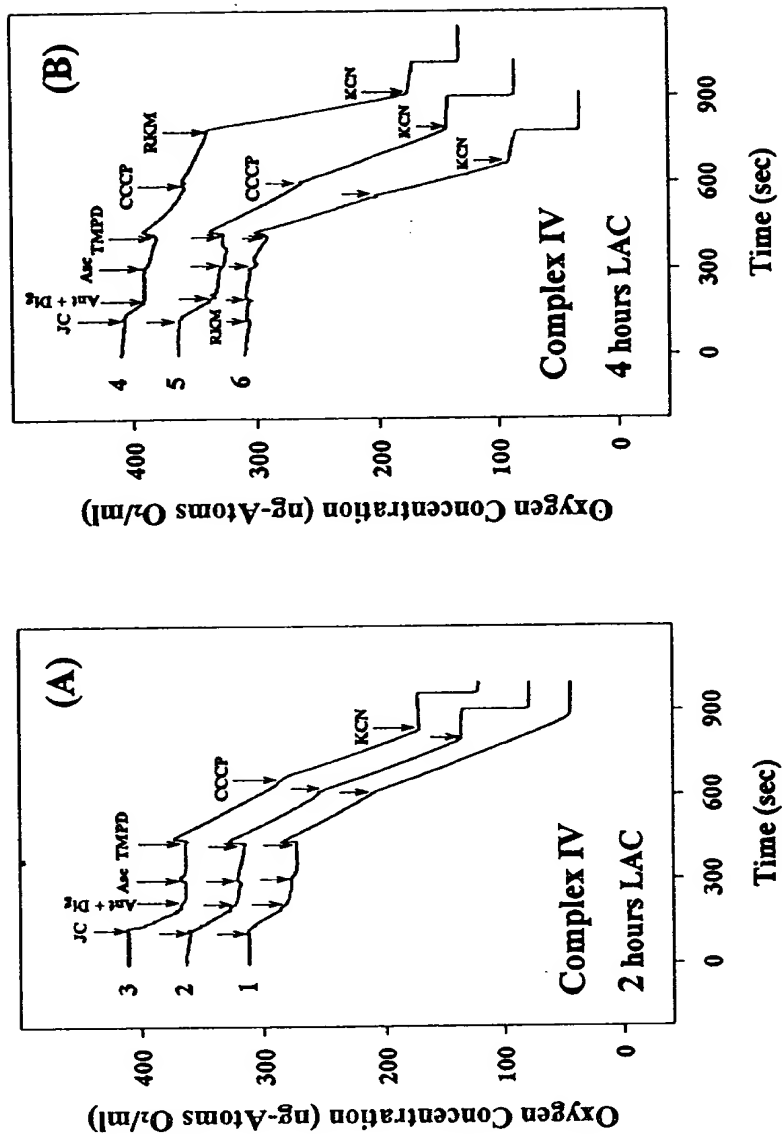


FIGURE 17

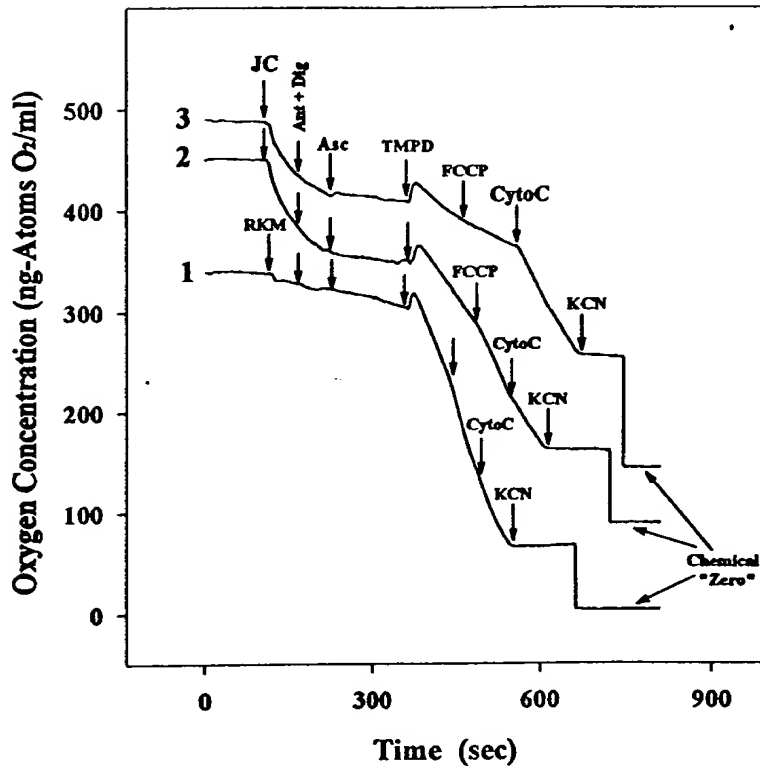


FIGURE 17



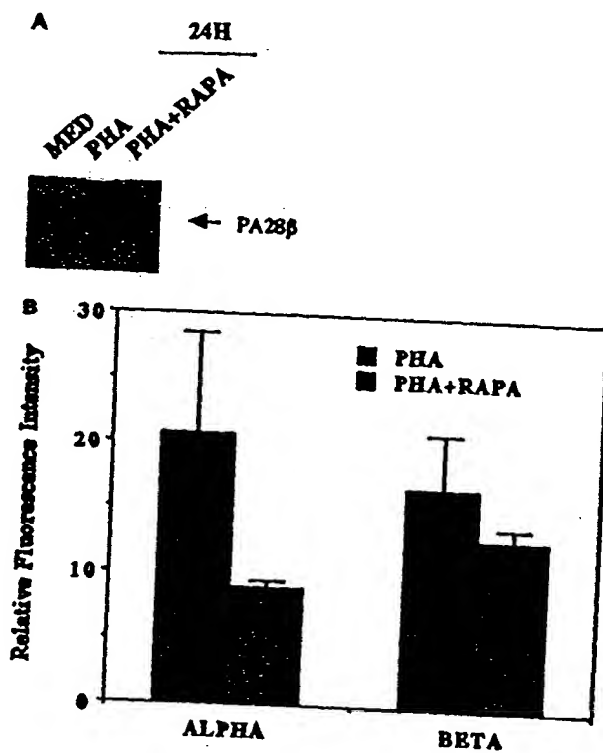


FIGURE 19

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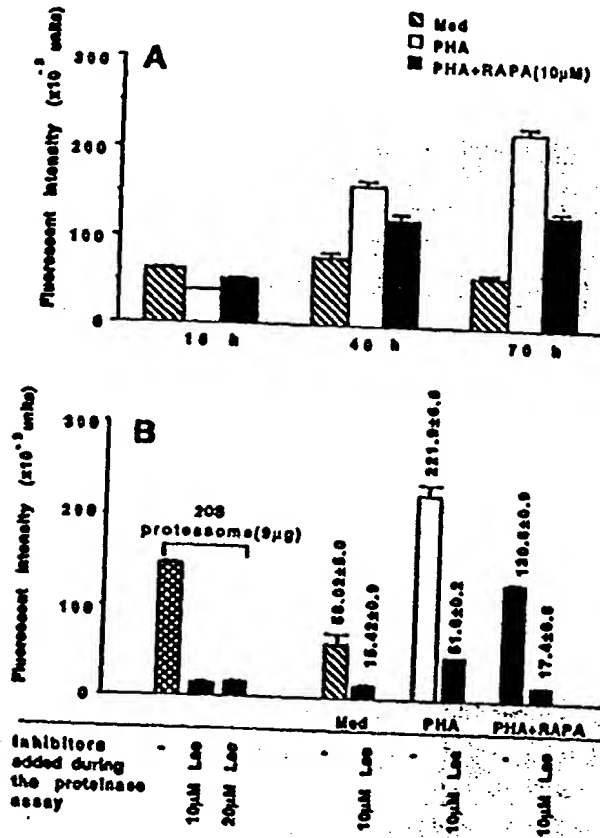


FIGURE 20

# Eliminating Alloantigen-specific Response by a Proteasome Inhibitor

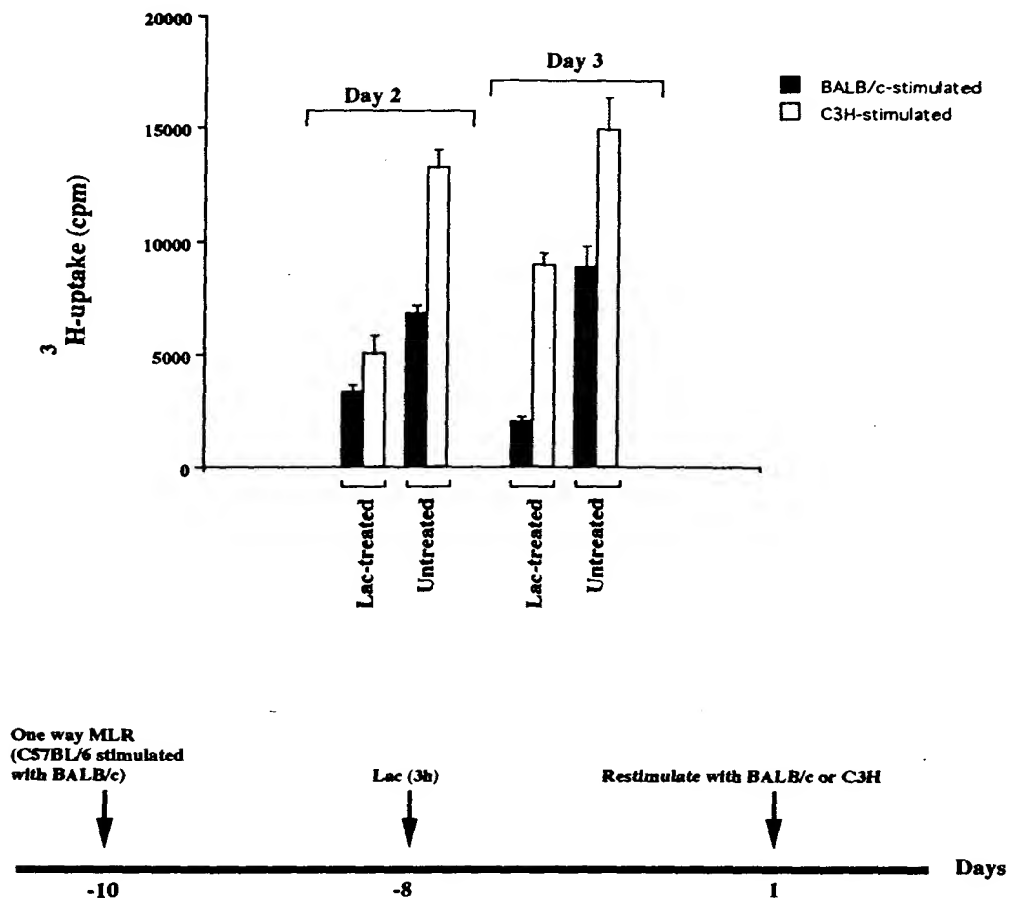


Fig. 21



## Z-VAD.fmk blocks Lactacystin induced apoptosis in Jurkat cell

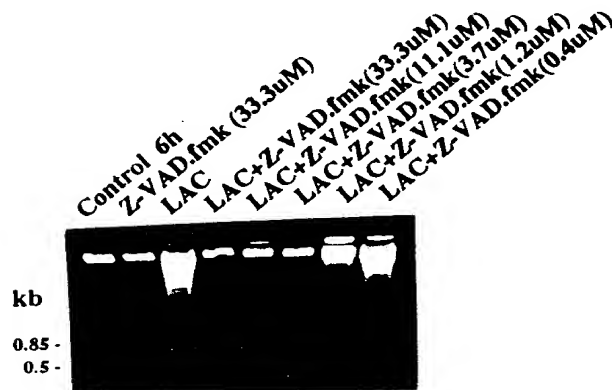


Fig. 22

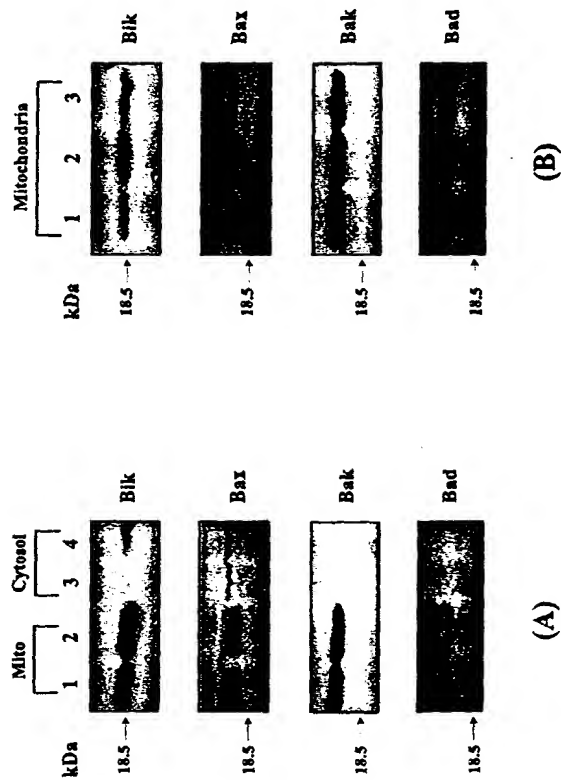


Fig. 23

# DNA-fragmentation in Namalwa-Control (▨) and Namalwa-BclX<sub>L</sub> (■) cells during Lactacystin (LAC) induced apoptosis.

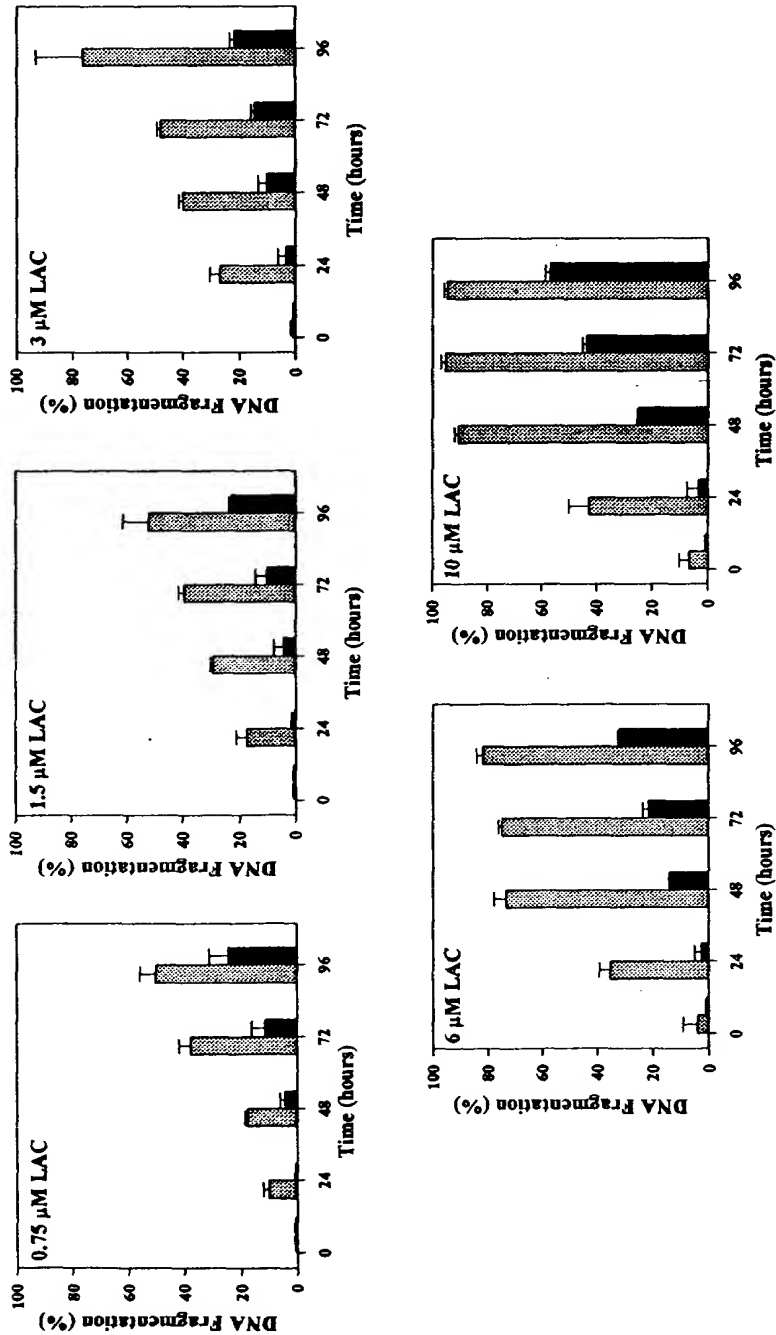


Fig. 24

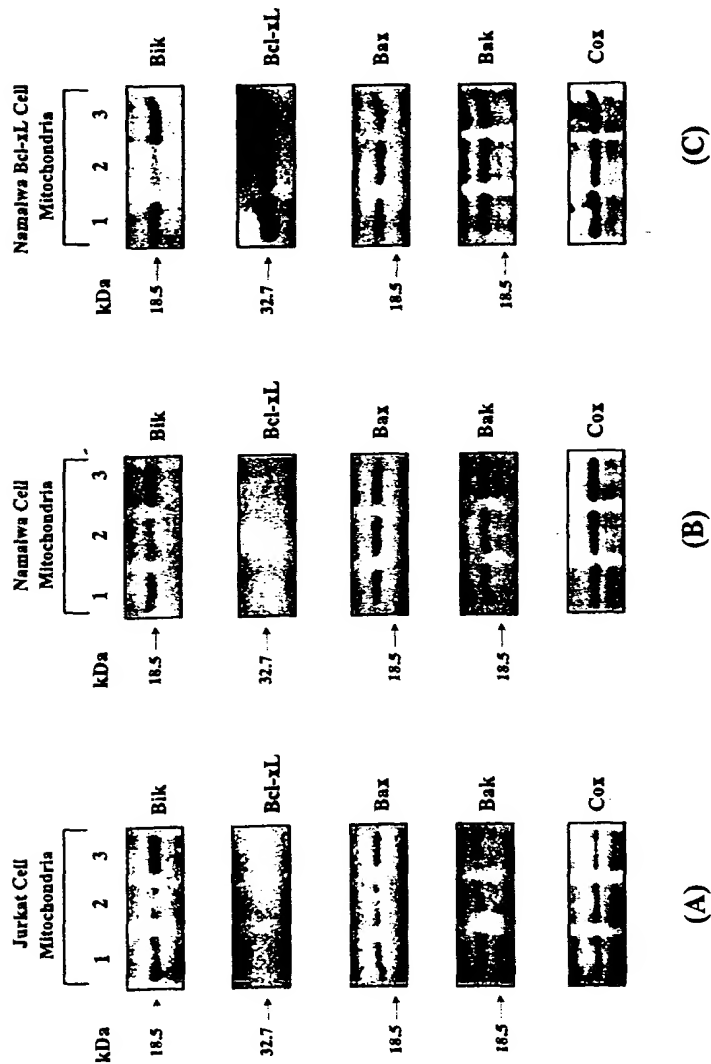
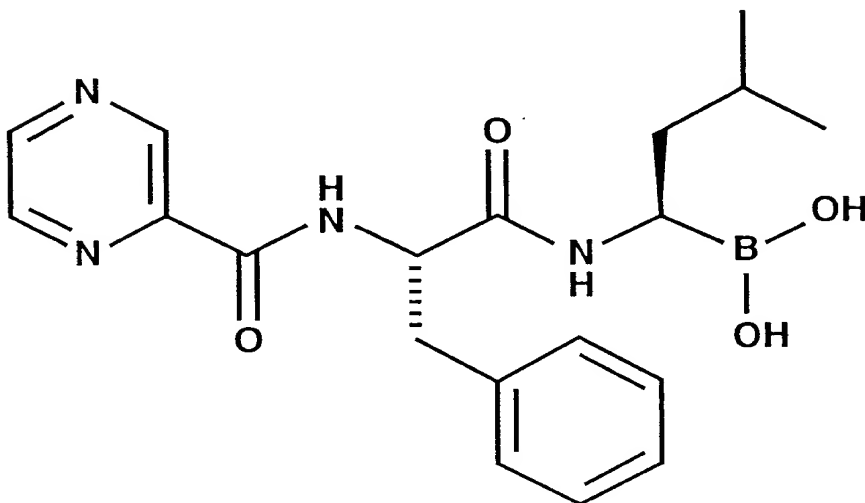


Fig. 25

## DIPEPTIDE BORONIC ACID (DPBA)

Pyz-Phe-boroLeu; Pyz, 2,5-pyrazinecarboxylic acid



## LACTACYSTIN

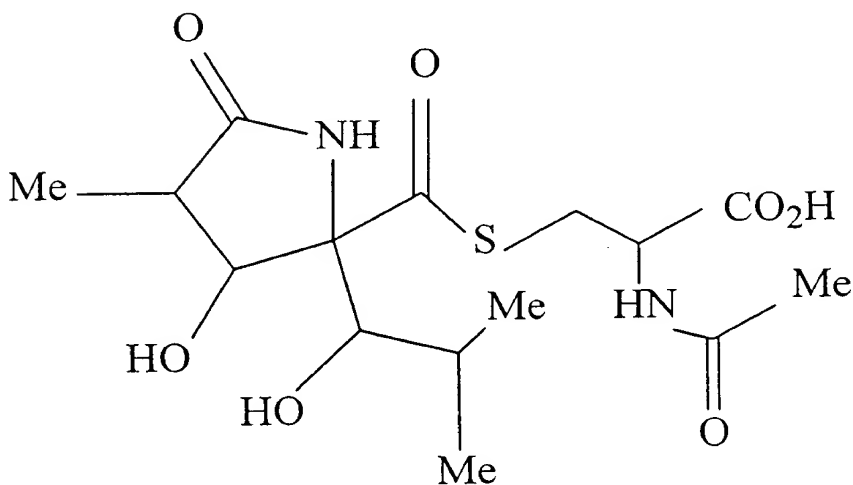


FIGURE 26

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## DPBA INHIBITS 20S PROTEASOME ACTIVITY

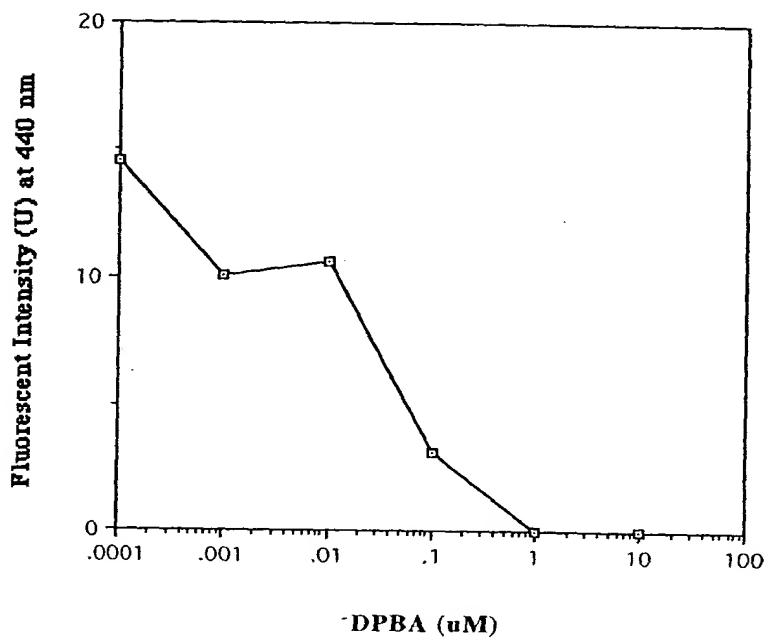


FIGURE 27

### Proteasome Inhibitor DPBA Inhibits Anti-CD3 Stimulated T Cell Proliferation

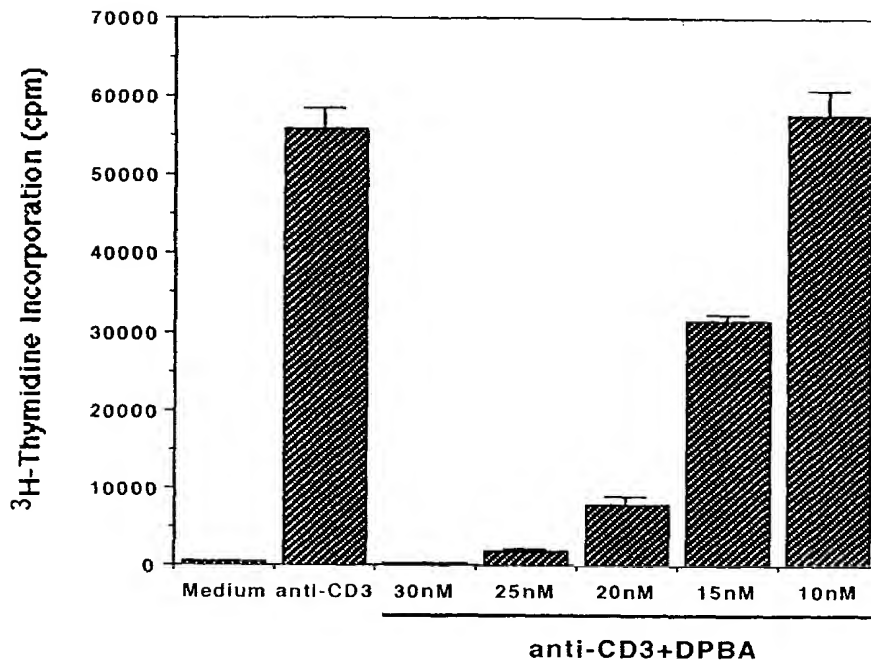
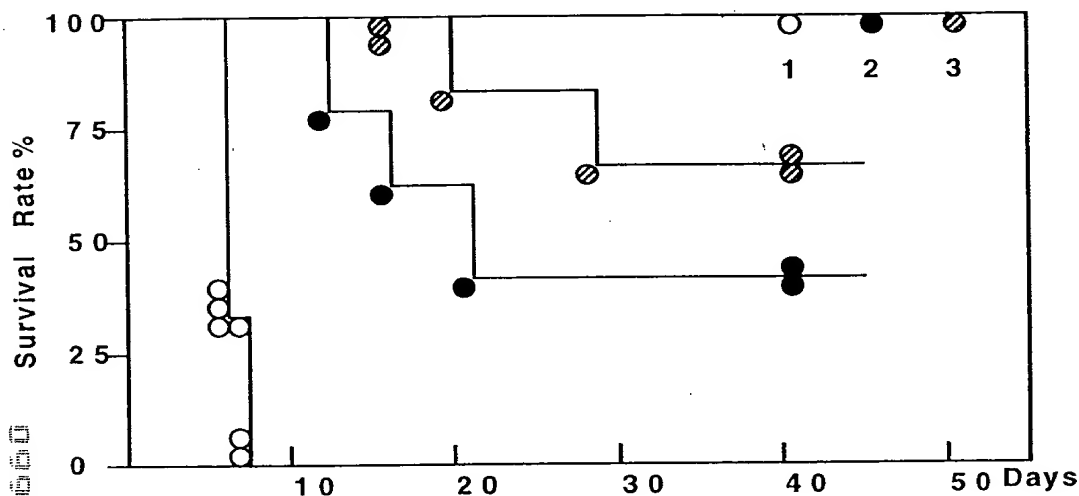


FIGURE 28

## Proteasome Inhibitor DPBA Prolongs Mouse Heart Allograft Survival



Groups	Survival Days	MST $\pm$ SD	P value
1 Control	7, 7, 7, 7, 8, 8	7.3 $\pm$ 0.5	—
2 DPBA 0.65mg/kg x 16 days	13, 16, 21 >40, >40, >16	>26.1 $\pm$ 13	0.006
3 DPBA 1.0mg/kg x 4 days, then 0.5mg/kg x 12 days	20, 29, >40 >16, >16 >16	>22.8 $\pm$ 9.8	0.008

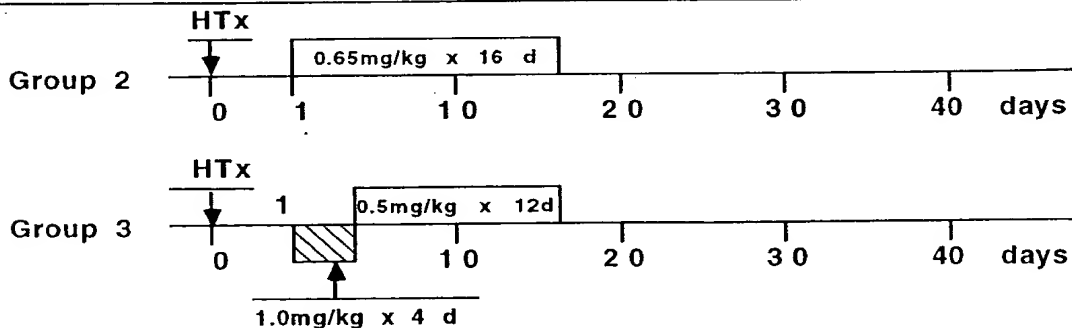
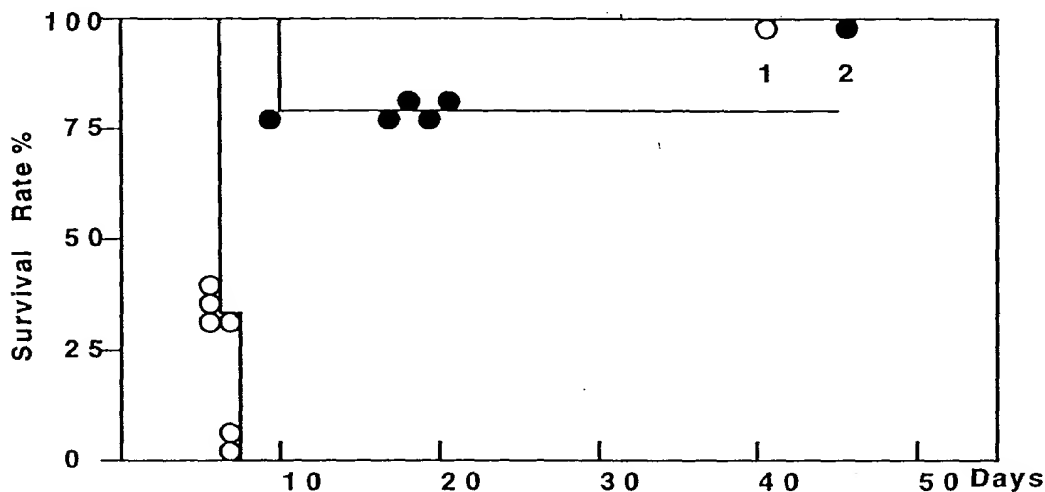


FIGURE 29



# Proteasome Inhibitor DPBA is Effective in Treating Ongoing Heart Allograft Rejection in Mice



Groups	Survival Days	MST $\pm$ SD	p value
1 Control	7, 7, 7, 7, 8, 8	7,3 $\pm$ 0.5	—
2 DPBA 1.0mg/kg/day i.p. x 4 days	10, >14, >14 >14, >14,	>13.2 $\pm$ 1.78	0.0001

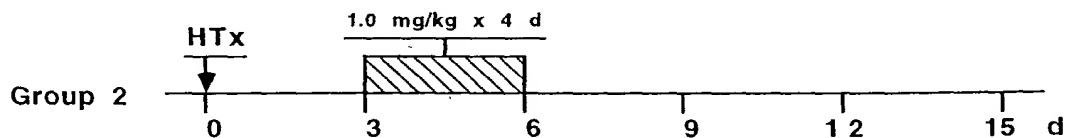


FIGURE 30

## Islet Transplantation in the Mouse Model

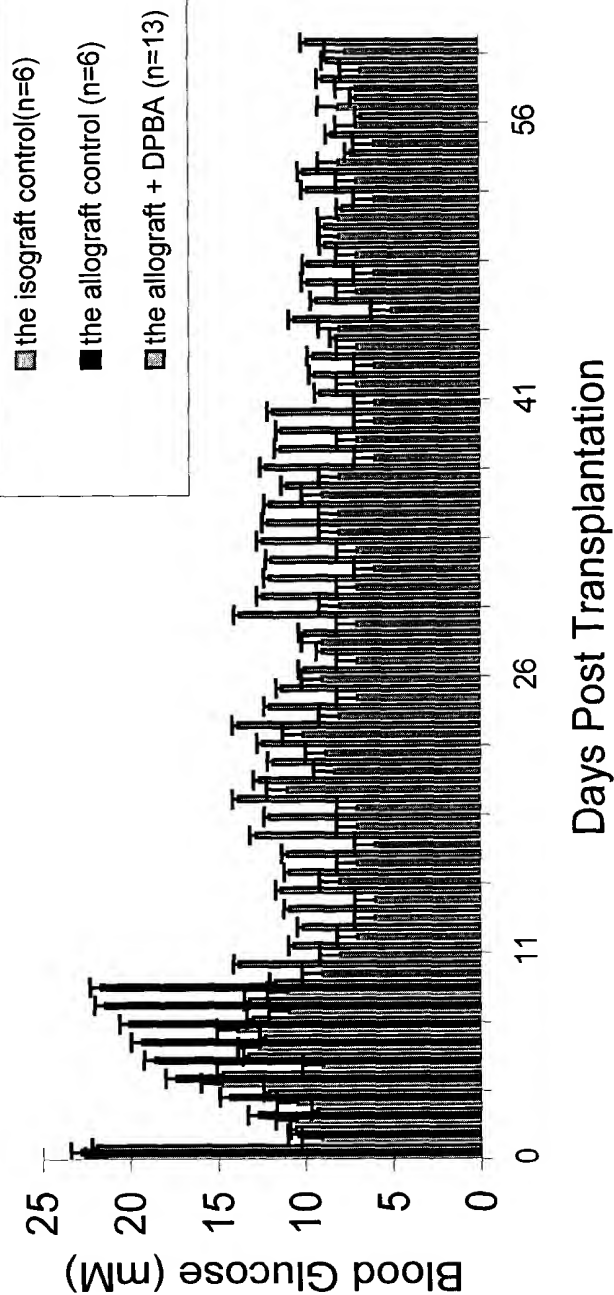


Figure 31